

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,009,931 B2
 APPLICATION NO. : 09/751881
 DATED : March 7, 2006
 INVENTOR(S) : Jianglei Ma et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Summary of Invention:

Column 2, line 33: delete "synchronization"
 insert --synchronizing--

Column 3, line 10: delete "course"
 insert --coarse--

In the Detailed Description of the Invention:

Column 7, line 54: delete " k_{\min} "
 insert -- k_{\min} --

Column 7, line 57: insert -- $l \in [-N_{\max}, N_{\min}]$, and --

Column 7, line 57: delete " $l \in [-N_{\max}, N_{\min}]$, and"
 insert -- $k \in [-N_{\max}, N_{\min}]$, and --

In the Claims:

Claim 1, Column 8, line 48: delete "received signal; and"

Claim 1, Column 8, line 42: delete "synchronization"
 insert --synchronizing--

Claim 1, Column 8, line 47: insert --received signal; and-- after words
 "correlator algorithm to said"

Claim 2, Column 8, line 56: delete " $\rho/2$ "

Claim 2, Column 8, line 59: insert -- $\rho/2$ -- in front of the words " $\sum_{l=0}^{N_{\text{symbol}}-1}$ "

Claim 2, Column 8, line 65: delete " X_{coarse}^i "
 insert -- x_{coarse}^i --

Claim 2, Column 8, line 67: delete " r_i^* "
 insert -- r_i^f --

Claim 3, Column 9, line 34: delete " X_{fine} "
 insert -- x_{fine} --

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In the Claims (cont.):

Claim 3, Column 9, line 35: delete " $X \in [X_{coarse} - N_{fine}, X_{coarse} + N_{fine}]$;"
insert -- $x \in [x_{coarse} - N_{fine}, x_{coarse} + N_{fine}]$; --

Claim 8, Column 10, line 14: delete "index is determined"
insert --index Z is determined--

Claim 8, Column 10, line 23: delete " $l \in [-N_{max}, N_{max}]$;"
insert -- $k \in [-N_{max}, N_{max}]$; --

Claim 8, Column 10, line 26: delete "frequency the"
insert --the frequency--

Claim 8, Column 10, line 28: delete " K_{min} "
insert -- k_{min} --

Claim 13, Column 10, line 53: delete "synchronization"
insert --synchronizing--

Claim 14, Column 11, line 5: delete " $\rho/2$ "

Claim 14, Column 11, line 8: insert -- $\rho/2$ -- in front of the words

" $\sum_{l=0}^{N_{symbol}-1}$ "

Claim 14, Column 11, line 15: delete " X_{coarse}^i "
insert -- x_{coarse}^i --

Claim 14, Column 11, line 17: delete " r_i^* "
insert -- r_i^f --

Claim 15, Column 11, line 49: delete " X_{fine} "
insert -- x_{fine} --

Claim 15, Column 11, line 50: delete " $X \in [X_{coarse} - N_{fine}, X_{coarse} + N_{fine}]$;"
insert -- $x \in [x_{coarse} - N_{fine}, x_{coarse} + N_{fine}]$; --

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In the Claims (cont.):

Claim 18, Column 12, line 16: delete "sub-carrier index"
insert --sub-carrier index Z--

Claim 18, Column 12, line 21: delete " PN_i^* "
insert -- PN_i^* --

Claim 18, Column 12, line 25: delete " $l \in [-N_{\max}, N_{\max}]$;"
insert -- $k \in [-N_{\max}, N_{\max}]$; --

Claim 18, Column 12, line 28: delete " K_{\min} "
insert -- k_{\min} --

Claim 23, Column 12, line 56: delete "synchronization"
insert --synchronizing--

Claim 24, Column 13, line 18: delete " X_{coarse}^i "
insert -- x_{coarse}^i --

Claim 24, Column 13, line 20: delete " r_i^* "
insert -- r_i^f --

Claim 25, Column 13, line 51: delete " X_{fine} "
insert -- x_{fine} --

Claim 25, Column 13, line 52: delete " $X \in [X_{coarse} - N_{fine}, X_{coarse} + N_{fine}]$;"
insert -- $x \in [x_{coarse} - N_{fine}, x_{coarse} + N_{fine}]$; --

Claim 28, Column 14, line 27: delete " R_{train}^{\square} "
insert -- R_{train} --

Claim 28, Column 14, line 30: delete " $l \in [-N_{\max}, N_{\max}]$;"
insert -- $k \in [-N_{\max}, N_{\max}]$; --

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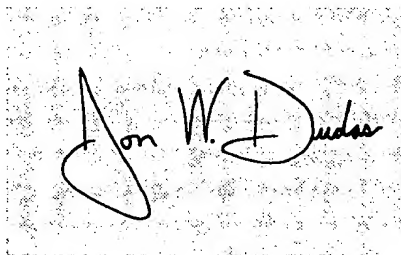
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims (cont.):

Claim 28, Column 14, line 33: delete " K_{\min} "
insert -- k_{\min} --

Signed and Sealed this

Fourteenth Day of November, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas", is written over a rectangular area with a light, textured background.

JON W. DUDAS

Director of the United States Patent and Trademark Office